



Banff International Research Station

for Mathematical Innovation and Discovery

Black Holes: New Horizons

Arriving Sunday, November 20 and departing Friday November 25, 2011

MEALS

*Breakfast (Buffet): 7:00 – 9:30 am, Sally Borden Building, Monday – Friday

*Lunch (Buffet): 11:30 am – 1:30 pm, Sally Borden Building, Monday – Friday

*Dinner (Buffet): 5:30 – 7:30 pm, Sally Borden Building, Sunday – Thursday

Coffee Breaks: As per daily schedule, in the foyer of the TransCanada Pipeline Pavilion (TCPL)

***Please remember to scan your meal card at the host/hostess station in the dining room for each meal.**

MEETING ROOMS

All lectures will be held in the new lecture theater in the TransCanada Pipelines Pavilion (TCPL). LCD projector, overhead projectors and blackboards are available for presentations.

SCHEDULE

Sunday, November 20

- | | |
|---------------|--|
| 16:00 | Check-in begins (Front Desk - Professional Development Centre - open 24 hours) |
| 17:30 – 19:30 | Buffet Dinner, Sally Borden Building |
| 20:00 | Informal gathering in 2nd floor lounge, Corbett Hall
Beverages and a small assortment of snacks are available on a cash honor system. |

Monday, November 21

7:00 – 8:45	Breakfast
8:45 – 9:00	Introduction and Welcome by BIRS Station Manager, TCPL
9:00 – 9:30	Robert Mann, <i>Multi-dimensional black holes with reduced symmetry</i>
9:30 – 10:00	Eric Poisson, <i>Electromagnetic self-force as a cosmic censor</i>
10:00 – 10:30	Luis Lehner, <i>Finally the final state of the GL instability</i>
10:30 – 11:00	Coffee Break, TCPL
11:00 – 11:30	Hiroataka Yoshino, <i>Bosenova collapse of axion cloud around a rotating black hole</i>
11:30 – 12:00	Hyun Kyu Lee, <i>Effect of stangeness in compact stars</i>
12:00 – 13:30	Lunch
13:30 – 14:30	Guided Tour of the Banff Centre; meet in the 2nd floor lounge, Corbett Hall
14:30 – 15:00	Group Photo; meet on the front steps of Corbett Hall
15:00 – 15:30	Coffee Break, TCPL
15:30 – 16:00	Pavel Krtous, <i>Integrability and separability in Kerr-NUT-AdS spacetimes-new connections</i>
16:00 – 16:30	Claude Warnick, <i>Hidden symmetries of the Kerr-Sen black hole: generalizing the Yano tensor</i>
16:30 – 16:50	Break
16:50 – 17:10	Masashi Kimura, <i>Analyticity of event horizons of extremal Kaluza-Klein black holes</i>
17:10 – 17:30	Chulmoon Yoo, <i>Construction and structure of "the black hole universe</i>
17:30 – 18:00	<i>Akihiro Ishibashi, Black holes in de Sitter space</i>
18:00	Dinner

Tuesday, November 22

9:00 – 9:30	Roberto Emparan, <i>Critical geometries at horizon intersections and mergers</i>
9:30 – 10:00	Sergey Solodukhin, <i>Entropy of classicalon</i>
10:00 – 10:30	Kayll Lake, <i>Gradient flows and the visualization of curvature</i>
10:30 – 11:00	Coffee Break, TCPL
11:00 – 11:30	Bill Unruh, <i>Black hole thermal radiation</i>
11:30 – 12:00	Takahiro Tanaka, <i>Hawking radiation of interacting fields</i>
12:00 – 15:30	Lunch and informal discussions
15:00 – 15:30	Coffee Break, TCPL
15:30 – 16:00	Hanno Sahlmann, <i>Black hole horizons from within loop quantum gravity</i>
16:00 – 16:30	Valeri Frolov, <i>Spinoptics in a stationary spacetime</i>
16:30 – 16:50	Break
16:50 – 17:10	Andrey Shoom, <i>Scattering of polarized light by rotating black hole</i>
17:10 – 17:30	Masato Nozawa, <i>Black holes in (fake)supergravity</i>
17:30 – 17:50	Abdallah Al Zahrani, <i>Particle Dynamics in Weakly Charged Extreme Kerr Throat</i>
18:00	Dinner

Wednesday, November 23

9:00 – 9:30	Ruth Gregory, <i>Lifshitz black holes in string theory</i>
9:30 – 10:00	Shinji Mukohyama, <i>Cosmology and GR limit of Horava-Lifshitz gravity</i>
10:00 – 10:30	Kei-Ichi Maeda, <i>Black holes in an expanding universe</i>
10:30 – 11:00	Coffee Break, TCPL
11:00 – 11:30	Jutta Kunz-Drolshagen, <i>Black holes in Einstein-Gauss-Bonnet theory</i>
11:30 – 12:00	Mu-In Park, <i>Observational Constraints on Horava Gravity Cosmology</i>
12:00 – 15:30	Lunch and informal discussions
15:00 – 15:30	Coffee Break, TCPL
15:30 – 16:00	Michael Volkov, <i>Black holes in massive gravity theories</i>
16:00 – 16:30	Don Page, <i>Large Black Holes in Randall-Sundrum II: Introduction</i>
16:30 – 16:50	Break
16:50 – 17:10	Shima Tari, <i>Large Black Holes in Randall-Sundrum II: Numerical Results</i>
17:10 – 17:30	Yongjoon Kwon, <i>The entropy spectra of black holes from their characteristic modes</i>
17:30 – 17:50	Yuichiro Sekiguchi, <i>Black Hole formation in stellar core collapse</i>
18:00	Dinner

Thursday, November 24

9:00 – 9:30	Matt Choptuik, <i>Critical collapse of collisionless matter</i>
9:30 – 10:00	Andrey Zelnikov, <i>Self-force of charged particles near higher dimensional black holes</i>
10:00 – 10:30	Gabor Kunstatter, <i>Singularity resolution inside radiating 2-D Black Holes</i>
10:30 – 11:00	Coffee Break, TCPL
11:00 – 11:30	Masaru Shibata, <i>Gravitational waves from NS-NS/BH-NS binaries</i>
11:30 – 12:00	Barak Kol, <i>New physics with old black holes</i>
12:00 – 15:30	Lunch and informal discussions
15:00 – 15:30	Coffee Break, TCPL
15:30 – 16:00	Steve Carlip, <i>Effective Conformal Descriptions of Black Hole Entropy</i>
16:00 – 16:30	David Kubiznak, <i>Thermodynamic volume of black holes and reverse isoperimetric inequality</i>
16:30 – 16:50	Break
16:50 – 17:20	Sung-Won Kim, <i>Gravitational wave generation due to a wormhole accretion onto a black hole</i>
18:00	Dinner

Friday, November 25

9:00 – 9:30	Gungwon Kang, <i>Black hole scattering cross section in parabolic orbits</i>
9:30 – 10:00	Rong-Gen Cai, <i>Holographic Superconductors from Gauss-Bonnet Gravity</i>
10:00 – 10:30	Sang Pyo Kim, <i>Vacuum polarization and Hawking radiation</i>
11:30 – 13:30	Lunch and informal discussions

Checkout by 12 noon.

** 5-day workshop participants are welcome to use BIRS facilities (BIRS Coffee Lounge, TCPL and Reading Room) until 3 pm on Friday, although participants are still required to checkout of the guest rooms by 12 noon. **